

Abstract

5 A light source for use in a spectrometer. A reflector is formed with a parabolic hole formed therein. A light emitting diode is placed in the parabolic hole. In the case where multiple LEDs are used in the light source, central axis through each of the parabolic holes are aligned so as to coincide a predetermined location. With LEDs in the parabolic holes, the light emitted will be focused on the predetermined location.